

# **Rocky Flats Environmental Technology Site**

## RECONNISSINACE LEVEL CHARCTERIZATION CHEMICAL CHARACTERIZATION PLAN (PACKAGE)

GROUP 15 CLOSURE PROJECT (Buildings B880, T891B, D, E, F, P, T893A, B, T900E and T904A)

### **REVISION 0**

## December 3, 2001

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ADMEN RECORD

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### RLC CHEMICAL CHARACTERIZATION PACKAGE

### BUILDING(s) Group 15 (Buildings B880, T891B, D, E, F, P, T893A, B, T900E and T904A)

- \* This characterization package was prepared in accordance with MAN-077-DDCP, D&D Characterization Protocols, and MAN-127-PDSP, Pre-Demolition Survey Plan for D&D Facilities
- \* RLCP and PDSP Data Quality Objectives were used to develop this characterization package

#### Instructions

- 1 Verify characterization activities are on the Plan-of-the-Day (POD)
- 2 Perform a Pre-Evolution Brief and/or Job Task Brief in accordance with the Site Conduct of Operations Manual
- 3 Verify personnel have appropriate training for the applicable tasks they will be performing
- 4 Comply with RWP requirements, if applicable
- 5 Comply with JHA and facility PPE requirements, as applicable
- 6 Inform the Facility Manager, or designee, prior to starting characterization activities
- 7 Follow applicable characterization and sampling procedures
- Notify Wackenhut Security (x2444) and the Shift Supervisor (x2914), and verify appropriate safety precautions/requirements are followed prior to accessing facility roofs
- 9 Coordination with the Environmental Restoration Program organization will be required to further characterize underneath facility foundations and slabs prior to removal
- 10 Collect and maintain all characterization paperwork in the Project File(s), and all electronic data in the appropriate D&D RISS subdirectory

ASBESTOS		
Sample Location	Estimated Number of Samples	Sample location and justification/rational
880	0	No building materials suspected of containing friable or non-friable asbestos were observed during walk-down
Т891В	6	Asbestos inspection has not been performed Since this structure will be sold to the general public, a comprehensive, invasive inspection will be performed to determine the presence of friable building materials. Suspect friable materials such as drywall & joint compound, drop ceiling tiles, thermal systems insulation, and surfacing materials will be sampled. Suspect non-friable materials will be noted in the survey, but not sampled. Approximate square and lineal footage of homogeneous materials will determine the number of bulk samples.
T891D	6	Asbestos inspection has not been performed. Since this structure will be sold to the general public, a comprehensive, invasive inspection will be performed to determine the presence of friable building materials. Suspect friable materials such as drywall & joint compound, drop ceiling tiles, thermal systems insulation, and surfacing materials will be sampled. Suspect non-friable materials will be noted in the survey, but not sampled. Approximate square and lineal footage of homogeneous materials will determine the number of bulk samples.
T891E	6	Asbestos inspection has not been performed. Since this structure will be sold to the general public, a comprehensive, invasive inspection will be performed to determine the presence of friable building materials. Suspect friable materials such as drywall & joint compound, drop ceiling tiles, thermal systems insulation, and surfacing materials will be sampled. Suspect non-friable materials will be noted in the survey, but not sampled. Approximate square and lineal footage of homogeneous materials will determine the number of bulk samples.
T891F	6	Asbestos inspection has not been performed Since this structure will be sold to the general public, a comprehensive, invasive inspection will be performed to determine the presence of friable building materials Suspect



	•	friable materials such as drywall & joint compound, drop ceiling tiles,
		thermal systems insulation, and surfacing materials will be sampled
		Suspect non-friable materials will be noted in the survey, but not sampled
		Approximate square and lineal footage of homogeneous materials will
		determine the number of bulk samples
T891P	6	Asbestos inspection has not been performed Since this structure will be
		sold to the general public, a comprehensive, invasive inspection will be
1		performed to determine the presence of friable building materials Suspect
		friable materials such as drywall & joint compound, drop ceiling tiles,
		thermal systems insulation, and surfacing materials will be sampled
		Suspect non-friable materials will be noted in the survey, but not sampled
		Approximate square and lineal footage of homogeneous materials will
1		determine the number of bulk samples
T893A	21	Asbestos inspection has not been performed Since this structure will be
	_,	sold to the general public, a comprehensive, invasive inspection will be
		performed to determine the presence of friable building materials Suspect
		friable materials such as drywall & joint compound, drop ceiling tiles,
]		thermal systems insulation, and surfacing materials will be sampled
		Suspect non-friable materials will be noted in the survey, but not sampled
		Approximate square and lineal footage of homogeneous materials will
	<b>,</b> 	determine the number of bulk samples
T893B	21	Asbestos inspection has not been performed Since this structure will be
18755	21	sold to the general public, a comprehensive, invasive inspection will be
1		performed to determine the presence of friable building materials Suspect
		friable materials such as drywall & joint compound, drop ceiling tiles,
	l	thermal systems insulation, and surfacing materials will be sampled
		Suspect non-friable materials will be noted in the survey, but not sampled
		Approximate square and lineal footage of homogeneous materials will
		determine the number of bulk samples
T900E	0	No building materials suspected of containing friable or non-friable
1900E	U	
770011		asbestos were observed during walk-down
T904A	6	Asbestos inspection has not been performed Since this structure will be
		sold to the general public, a comprehensive, invasive inspection will be
		performed to determine the presence of friable building materials Suspect
1		friable materials such as drywall & joint compound, drop ceiling tiles,
		thermal systems insulation, and surfacing materials will be sampled
		Suspect non-friable materials will be noted in the survey, but not sampled
		Approximate square and lineal footage of homogeneous materials will
		determine the number of bulk samples
Total Samples	78	The exact number of samples and their locations cannot be determined
		until a comprehensive, invasive inspection of Group 15 is performed in
		accordance with 40 CFR Part 763, Subpart E Sample locations will be
		specified on sample map(s) during characterization efforts Samples will
		be obtained in accordance with PRO-653-ACPR, Asbestos
		,

BERYLLIUM		
Sample Location	Number of Samples (smears)	Sample location and justification/rational
880	15	Based on the Historical Site Assessment Report (HSAR) and Interview Checklists, there is not adequate historical and process knowledge to conclude that beryllium was not used or stored in this building Therefore, biased sampling will be conducted
T891B, D, E, F, P	25	Based on the Historical Site Assessment Report (HSAR) and Interview Checklists, there is not adequate historical and process knowledge to conclude that beryllium was not used or stored in these buildings Therefore, biased sampling will be conducted, five samples per building
T893A	10	Based on the Historical Site Assessment Report (HSAR) and Interview Checklists, there is not adequate historical and process knowledge to conclude that beryllium was not used or stored in this building. Therefore, biased sampling will be conducted
T893B	10	Based on the Historical Site Assessment Report (HSAR) and Interview Checklists, there is not adequate historical and process knowledge to conclude that beryllium was not used or stored in this building. Therefore, biased sampling will be conducted
T900E	5	Based on the Historical Site Assessment Report (HSAR) and Interview Checklists, there is not adequate historical and process knowledge to conclude that beryllium was not used or stored in this building Therefore, biased sampling will be conducted
T904A	5	Based on the Historical Site Assessment Report (HSAR) and Interview Checklists, there is not adequate historical and process knowledge to conclude that beryllium was not used or stored in this building. Therefore, biased sampling will be conducted
Total Samples	70	The exact number of samples and their locations cannot be determined prior to the investigative inspection. Samples locations will be specified on sample map(s) in accordance with PRO-536-BCPR, Beryllium. Characterization Procedure. Biased sample locations will correspond with the most probable areas of dust accumulation (including beryllium dust), assuming airborne deposition.

LEAD		
Sample Location	Number of Samples	Sample location and justification/rational
Group 15 Cluster, all facilities	0	Lead sampling is not required in the Group 15 Cluster Based on the HSAR, Interview Checklists, and facility walkdowns, the only potential for a lead hazard would be in the paint No lead-containing solutions were processed in these facilities. If paint will remain a part of the infrastructure during demolition and disposal, or if the trailers are resold, sampling is not required as per Environmental Waste Compliance Guidance No. 27, Lead Based Paint (LBP) and LBP Debris Disposal. Sampling for lead for IH requirements will be at the discretion of the demolition contractor.

RCRA/CERCLA CONSTITUENTS		
Sample Location	Number of	Sample location and justification/rational
	Samples	
B880	0	Based on the Historical Site Assessment Report, Interview Checklists and
1		facility walkdowns, no hazardous activities resulting in a release of
		RCRA/CERCLA constituents occurred in this building Therefore,
		sampling is not required or necessary
T891B, D, E, F, P,	0	Based on the Historical Site Assessment Report, Interview Checklists and
T893A, B and		facility walkdowns, no hazardous activities resulting in a release of
T904A*		RCRA/CERCLA constituents occurred in these trailers During the
	ĺ	walkdowns for each trailer, several small iron-oxide stains were noted on
	ļ	the vinyl floors of each trailer due to rusting office furniture In April
		2000, a very small-scale incidental release of liquid mercury (from a
	}	broken barometer) occurred in a small storage room located by the entry
		door (on the east side of the facility that acts as a dock) of T893B
]		However the cleanup by HAZMAT and Material Stewardship personnel
ļ		was thorough, and no residual mercury is expected to be found in T893B
ł		Therefore, sampling is not required or necessary
1		
1		Prior to offsite resale, all fluorescent light bulbs will be removed (to
		prevent breakage during transit) and managed onsite as Universal Waste
T900E*	0	Based on the HSAR, Interview Checklists, and facility walkdowns, no
		process activities resulting in a release of RCRA constituents or CERCLA
	i	hazardous substances occurred in this trailer (Mobil Soil Vapor Extraction
(		Unit) Note the process piping knockout drum, vacuum pipes, and
		HEPA filter housing units (located inside the trailer) were inaccessible
		during the RLC sampling planning walk-down These areas will be
	!	characterized for RCRA chemicals and radiological contaminants during
	!	the RLC if any sludge, liquids and/or staining (indicating chemical
		residue) are discovered during system breech, otherwise sampling is not
		required or necessary
Total Samples	0	

PCBs		
Sample Location	Number of Samples	Sample location and justification/rational
B880	0	B880 has no electrical power or light ballasts. However, the structural girders inside B880 have been painted gray. Since the facility was constructed in 1968, the paint is assumed to contain PCBs. Therefore, when the building is demolished the girders must be disposed of as PCB bulk product waste. During the walkdown several small oil stains (several inches in diameter) were noted on the concrete floor due to minor leaks from the fork truck currently stored in the facility (the Facility Manager confirmed that no other equipment has been stored in B880). No other visible stains were observed during the walkdown. Therefore, sampling is not required or necessary.
T891B, D, E, F, P, T893 A, B, T900E and T904A*	0	Based on the age of the facilities, PCB paint sampling is not required for the remaining trailers in the Group 15 Closure Project  During the walkdown(s), none of the fluorescent light ballasts were observed to be leaking. However, prior to sale of the trailers by PU&D, each light ballast must be inspected individually. Any ballast not labeled "No PCBs" will be removed and managed onsite according to the TSCA regulations.
Total Samples	0	

<sup>\*</sup> PCB ballasts and fluorescent light bulbs located in these trailers, shall be removed and managed onsite prior to sale

